# Michael He

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## EDUCATION

**University of Virginia — Charlottesville, VA**                                    Aug 2022 – May 2026
*Bachelor of Science in Computer Science, Minor in Data Science*                    *Dean's List, GPA: 3.94*
**Relevant Courses: Data Structures and Algorithms**, Computer Systems Organization, Discrete Math and Theory, Linear Algebra, Software Engineering, Cybersecurity, Data Design, Statistics, Machine Learning, Reinforcement Learning, Natural Language Processing

## TECHNICAL SKILLS

**Languages: Python (5 years)**, **Java (6 years)**, JavaScript/TypeScript (4 years), HTML/CSS (4 years), C++ (2 years), SQL (1 year)
**Frameworks: React.js/Next.js**, Node.js, Tailwind CSS, Spring Boot, Material-UI, JUnit, express, Django, Symfony, PyTorch, scikit-learn
**Developer Tools:** Git, GitHub, Gradle, Heroku, Github Actions, Postman, Terraform, Jira, Confluence, Datadog, CircleCI, Harness, Kubernetes, Rancher, SQLite3, AWS DynamoDB, AWS S3, AWS EC2, Figma, OpenAI API, Discord API, Postgresql, AWS Cloudfront, AWS Lambda, MySQL, NoSQL, Unix
**Soft Skills:** Communication skills, Teamwork, Time management, Problem-solving, Motivated, Active listener, Disciplined, Attentive

## RELEVANT WORK EXPERIENCE

**Software Engineer Intern**                                                         May 2024 – Sep 2024
*GOBankingRates*                                                                     *Los Angeles, CA*
- Ensured high availability and performance with a **99.97% uptime** by maintaining a mission-critical internal codebase used by **over 2000 banks**.
- Completed **over 15 Jira tickets**, contributing to the successful development and deployment of software features and improvements.
- Delivered **10+ new features** and improvements by working with cross-functional teams.
- Reduced time to find a error by **75%** by utilizing Datadog to monitor and report errors for kubernetes cron jobs.
- Developed and deprecated **3 API endpoints** for image generation using **Express.js**, optimizing functionality.
- Engaged in daily stand ups and regular one-on-one meetings with the manager following an **agile methodology**.
- Leveraged Gemfury and **Docker** for local project execution and successful deployment to production environments.
- Configured company codebases using **Windows Subsystem for Linux (WSL)** to enhance development workflows.
- Employed **Terraform** for infrastructure as code to manage AWS CloudFront caching policies, enhancing content delivery efficiency.
- Updated ReadMes and **documentation in confluence** to support installation on ARM Macs, ensuring comprehensive guidelines.

**Software Engineer Intern**                                                         Jan 2023 – Mar 2024
*Runway*                                                                             *Atlanta, GA*
- Contributed to Runway's place in the **top 25** startups to watch in the 'Silicon Valley of the South' and a **$5 million evaluation**.
- Produced production level code to manage **over 2000 college students and businesses**.
- Interacted with other developers to manage and build **over 20 user interface components and pages** using Next.js.
- Partnered with developers to build **5+ Spring Boot RESTful API routes** hosted on an EC2 instance to organize over **200 business projects**.
- Accomplished a **30% improvement** in website loading speed and a **25% increase** in user engagement with desktop and mobile devices by leveraging **DynamoDB and S3** for data retrieval and storage, and utilizing **Tailwind** to create responsive layouts when developing website components.
- **Collaborated** with project managers, UI/UX designers, and 3 developers to define project goals, requirements, and timelines.

## RELEVANT PROJECTS

**HooGrades** | *Next.js, Tailwind CSS, AWS Lambda, AWS Dynamodb, AWS S3, AWS EC2, OpenAI API | Team Project*    Mar 2024
- Participated in a **24 hour** hackathon competing against a field of **700 contestants**.
- Developed a full-stack SaaS website using AWS Lambda serving as an API gateway with Next.js as the frontend.
- Improved the website's interactivity and visual appeal by **50%** by integrating Framer Motion to incorporate fluid animations.
- Spearheaded the UI/UX design using Figma for HooGrades and utilized **OpenAi's vision API** to grade students' work.
- Implemented a robust backend architecture on AWS, using services such as **Lambda, DynamoDB, S3, and EC2**, ensuring scalability, reliability, and high performance of the HooGrades platform.
- Facilitated team collaboration and effective version control using **GitHub**, leading to streamlined development processes, efficient resolution of merge conflicts, and maintenance of high-quality code standards.

**CheapGPT** | *Node.js, Discord API, OpenAI API, SQLite3 | Personal Project*                          Jun 2023 – Present
- Launched a **Node.js** based Discord bot to allow users to interact with ChatGPT 4 with vision in a server setting.
- **Continuously maintained** and updated the Discord bot to ensure optimal performance and scalability.
- Generated a **file directory system** when the text exceeded the Discord character limit.
- Implemented commands for users and allowed users to create multiple conversations.

## LEADERSHIP EXPERIENCE

**Technical Interviewing Workshop Lead**                                             Sep 2024 – Present
*University of Virginia*                                                             *Charlottesville, VA*
- Led a workshop **3 times a week** for over **100 UVA students** by walking through common data structures and algorithm problems.
- Facilitated **whiteboarding sessions** to collaboratively work through system design challenges and tradeoffs.
- Provided **actionable tips** for each stage of the interview process based on personal experience and industry best practices.